

**Below is a summary for ITB 432-11107 Vacuum litter collection vehicles.**

1. We are proposing to replace a total of four vacuum litter collection vehicles.
2. Unit price for the Tennant Model ATVL4300 is \$44,815.60.
3. Unit price for the Madvac Model LR50 is \$72,605.25.
4. Tennant does not publish an expected lifecycle projection. Based on historical repair data the Tennant ATVL4300 should be replaced every three years before it becomes cost prohibited.
5. Based on manufacturer recommendation the Madvac Model LR50 should be replaced every 8 to 12 years.
6. We recommend a nine year lifecycle for Madvac Model LR50.
7. If we continue purchasing the Tennant Model ATVL4300 we will need to replace them every three years.
8. During the nine year projection we would need to purchase a total of 16 Tennant ATVL4300 while purchasing 8 units of the Madvac LR50 to replace the four vacuum collection vehicles in service.
9. The collective capital savings over the nine year lifecycle for the four vacuum litter collection vehicles would be (\$153,737.28).
10. The robotic arm is standard on the Madvac model LR50; it is not available on the Tennant Model ATVL4300.
11. The all-wheel drive option is included on the Madvac model LR50, but is not available on the Tennant ATVL4300.

**Nine Year Lifecycle analysis**

**Option 1 Purchase the Tennant with 3 year lifecycle**

Unit #	Bid price	Year 3	Year 6	Year 9	
V6057	\$44,815.60	\$48,971.00	\$53,512.17	\$58,474.19	
V6058	\$44,815.60	\$48,971.00	\$53,512.17	\$58,474.19	
V6059	\$44,815.60	\$48,971.00	\$53,512.17	\$58,474.19	
V6060	\$44,815.60	\$48,971.00	\$53,512.17	\$58,474.19	
<b>Total</b>	<b>\$179,262.40</b>	<b>\$195,884.00</b>	<b>\$214,048.68</b>	<b>\$233,896.76</b>	<b>\$823,091.84</b>

**Option 2 Purchase the Madvac with 9 year lifecycle**

Unit #	Bid price	Year 9	
V6057	\$72,605.25	\$94,733.39	
V6058	\$72,605.25	\$94,733.39	
V6059	\$72,605.25	\$94,733.39	
V6060	\$72,605.25	\$94,733.39	
<b>Total</b>	<b>\$290,421.00</b>	<b>\$378,933.56</b>	<b>\$669,354.56</b>
		<b>Difference</b>	<b>(\$153,737.28)</b>